



Kings Byte

The Kings County
TRS-80 Users Group

c/o MORTY LIBOWITZ
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KINGS BYTE NEWSLETTER

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KINGS BYTE MEETINGS

Our meetings take place on the first Wednesday of each month at BAM (B'klyn Academy of Music) located near the Atlantic Ave. and Pacific St. subway stations. It is also near the L.I.R.R. station.

Meetings start at 7:00 PM. Assembly language course at 7:30 PM. Lectures and/or demonstrations start at 8:15 PM. For up-to-date information call our Official Contact, Morty Libowitz at (212) 763-4233.

President's Keyboard
by
Steve Abramowitz

Hi Everybody! By the time you read this, I hope to be back from my second trip this month to Florida. The first was a vacation and the second was to celebrate my son Michael's Bar Mitzah.

I understand that the Word Processing Seminar at our last meeting was so good that it could be called "ELECTRIC". My thanks and a tip of the hat to all of the participants; Barry Kornfeld, Stan Milgrim, Walter Gorkiewicz, and Lou Shapiro. My thanks also to Kal who chaired the December meeting in my absence.

We have a very exciting meeting planned for January 6, 1982 (oops I almost wrote '81). Stephen Leon will discuss CP/M on the TRS 80 Model I and will demonstrate it with an Omicron Mapper. Many of you are familiar with the TRSDOS family of operating systems, but CP/M is quite different. Some of us have a modified CP/M version 1.4 but Stephen will be using the more recent version 2.

Now that IBM and XEROX have selected CP/M for their small computers, (since they don't know how to write software for MICROS -- just kidding) CP/M has become the de facto industry standard. It's principal feature is its system portability. However, as we are all learning, sometimes the operating system has so many bells and whistles of its own and many application programs do not run correctly, or even run. For example, about one-half of the 38 or 39 patches or zaps for the latest version of Newdos 80 (version 2) are to application programs so that they can run on that system. There are patches for Pencil, Scribes, Visicalc, and the Radio Shack Cobol & Basic Compilers.

The newest version of LDOS 5.1.1 also contains some Patch files for Pencil, Visicalc and 2 different ones for Scribes. LDOS has added a few features to Visicalc, and has created a really outstanding new version of Scribes, which LDOS calls LSCRIPT. Frankly, the price of the operating system is worth it alone for the LSCRIPT file. But LDOS remains, in my opinion, the most advanced and sophisticated of all of the TRSDOS based operating systems. It will be interesting to see how CP/M version 2.2 the "de facto industry standard" compares.

Our public domain disk library is in trouble. We have a number of long overdue disks outstanding. Members should try to return their library disk to Morty at the next meeting, or mail it back to him if they are unable to attend. If this situation continues, we may have to require a refundable deposit check of \$3.00 to cover the cost of the media.

Happy holidays! Happy New Year! Happy Computing!

Steve

GUIDE TO THE USE OF SCRIPSIT - Second Part

REMOVING HYPHENS IN TEXT (E.G., PRIOR TO EDITING):

ANY CHANGE IN THE TEXT OR IN THE MARGIN COMMANDS OF 29
 A DOCUMENT AFTER IT HAS BEEN HYPHENATED NECESSITATES
 REMOVING EXISTING HYPHENS AND RE-HYPHENATING; THE
 REMOVAL SHOULD TAKE PLACE BEFORE EDITING -- THE
 RE-HYPHENATION SHOULD BE DONE AFTER COMPLETION
 OF EDITING

IMPORTANT NOTE:

THE SCREEN WIDTH MUST BE SET
 TO THE SAME LENGTH AS THE
 LINES PRINTED ON HARDCOPY
 SUBTRACT LEFT MARGIN VALUE FROM
 RIGHT MARGIN VALUE; CALL
 THE DIFFERENCE THUS OBTAINED
 "X" (USE IN SECOND LINE BELOW)

BREAK

W=X(CR)

TO SET SCREEN LINE LENGTH EQUAL
 TO PRINTED LINE LENGTH

PUT THIS "X" VALUE IN A COMMENT
 LINE AT TOP OF TEXT FOR
 FUTURE REFERENCE

CTRL Q

-

POSITION CURSOR OVER FIRST SPACE
 OR CHARACTER IN TEXT WHERE YOU
 WANT HYPHENATION TO BEGIN

CTRL Q

CTRL DN ARROW

BREAK

H(CR)

2(CR)

CLEAR

NOW POSITION CURSOR OVER THE LINE
 END MARKER (GRAPHIC BLOCK)
 WHICH TERMINATES THE LAST LINE
 IN WHICH YOU WANT HYPHENATION

SPECIFY "2" FOR THE "HOT ZONE"
 AT THE FIRST HYPHEN DECISION
 THE HYPHENS HAVE NOW BEEN DELETED

WINDOW COMMAND MODE:

* CTRL W THEN USE THE 4 ARROW KEYS TO SCROLL 54
 THE TEXT THROUGH THE WINDOW
 * CLEAR WILL CANCEL THE WINDOW MODE (AS WILL
 THE USE OF ANY OTHER COMMAND)

USE OF "CLEAR" KEY:

* CLEAR CANCELS INSERT MODE AND DELETES 20
 ALL SPACES UP TO THE FIRST

ALPHANUMERIC CHARACTER
(INCLUDING SPACES WHICH ARE
AUTOMATICALLY INSERTED BY A
PARAGRAPH BOUNDARY MARKER)

| | | |
|---------|----------------------------------|----|
| * CLEAR | CANCELS ANY INSTRUCTION WHICH IS | 20 |
| | "IN PROGRESS" -- SUCH AS A | |
| | PRINTOUT OR A GLOBAL COMMAND | |
| * CLEAR | CANCELS MESSAGES ON THE MESSAGE | 20 |
| | LINE AT THE BOTTOM OF THE | |
| | SCREEN | |
| * CLEAR | WILL REFORMAT THE CURRENT AND | 20 |
| | PREVIOUS LINE IF NEEDED AFTER | |
| | AN EDITING OPERATION HAS | |
| | REPLACED A LONG FIRST-WORD IN | |
| | A LINE WITH A WORD WHICH IS | |
| | NOW SHORT ENOUGH TO FIT ON THE | |
| | PREVIOUS LINE; PRESS CLEAR AFTER | |
| | EDITING THE WORD | |
| * CLEAR | CANCELS ANY SPECIAL COMMAND LINE | 20 |
| | PROMPT WHICH WAS OBTAINED BY | |
| | PRESSING BREAK | |

STATUS INQUIRY:

| | | |
|---------|-------------------------------------|----|
| * BREAK | TO DETERMINE LINE WIDTH ON SCREEN | 12 |
| ?W(CR) | (DEFAULT IS 60) | |
| * BREAK | TO RESET SCREEN LINE WIDTH TO | 15 |
| W=X(CR) | "X" CHARACTERS (DEFAULT 60) | |
| * BREAK | GIVES PARAGRAPH INDENTATION | 12 |
| ?I(CR) | (DEFAULT IS 5) | |
| * BREAK | TO RESET PARAGRAPH INDENTATION | 15 |
| I=X(CR) | | |
| * BREAK | TO DETERMINE THE NUMBER OF | 12 |
| ?L(CR) | CHARACTERS YOU HAVE TYPED | |
| * BREAK | TO DETERMINE THE NUMBER OF | 12 |
| ?M(CR) | CHARACTERS WHICH CAN YET FIT | |
| | IN MEMORY (32668 MAX IN 48K) | |
| * BREAK | LINE NUMBER OF LAST LINE TO CONTAIN | 12 |
| ?C(CR) | THE CURSOR | |
| * BREAK | DISPLAYS CURRENT FILENAME | 12 |
| ?N(CR) | | |

FORMAT COMMANDS FOR PRINTED OUTPUT:

SAMPLE FORMAT LINE: 15,18

| | |
|---|----|
| * >LM=10 RM=70 TM=3 BM=63 PF=2 | 37 |
| LEFT MARGIN = 10 SPACES FROM LEFT EDGE | |
| RIGHT MARGIN = 70 SPACES FROM LEFT EDGE | |
| TOP MARGIN = 3 LINES FROM TOP EDGE | |
| BOTTOM MARGIN = 63 LINES FROM TOP EDGE | |
| PARAGRAPH FORMAT = 1 LINE BETWEEN PARA | |

THIS GIVES A LINE LENGTH OF 60 WITH 60 LINES/PAGE

COMMAND SUMMARY:

| COMMAND | FUNCTION | DEFLT |
|---------|------------------------------------|-------|
| * LM=X | LEFT MARGIN | 12 |
| * RM=X | RIGHT MARGIN | 72 |
| * TM=X | TOP MARGIN | 6 |
| * BM=X | BOTTOM MARGIN | 60 |
| * PF=X | PARAGRAPH FORMAT (1=NO LINE B/N) | 1 |
| * LS=X | LINE SPACING (1=SINGLE SPACING) | 1 |
| * PL=X | PAGE LENGTH (# OF PHYSICAL LINES) | 66 |
| * J=Y | LEFT & RIGHT JUSTIFICATION | Y |
| * J=N | LEFT JUSTIFICATION ONLY (SEE NOTE) | Y |
| * C=Y | CENTER TEXT B/N LEFT & RIGHT | N |
| * C=N | STOP CENTERING OF TEXT | N |
| * FR=Y | RIGHT JUSTIFICATION ONLY | N |
| * FR=N | DISABLE RIGHT JUSTIFY ONLY | N |
| * VC=Y | VERTICALLY CENTER TEXT | N |
| * VC=N | DISABLE VERTICAL CENTERING | N |
| * P=Y | ENABLE PRINTING | Y |
| * P=N | SUSPEND PRINTING TEMPORARILY | Y |
| * H=X | FIRST HEADER TO APPEAR ON PAGE X | |
| * F=X | FIRST FOOTER TO APPEAR ON PAGE X | |
| * H=Y | ENABLE HEADERS | |
| * H=N | DISABLE HEADERS | |
| * F=Y | ENABLE FOOTERS | |
| * F=N | DISABLE FOOTERS | |
| * H=E | PRINT EVEN HEADER ON NEXT PAGE | |
| * H=O | PRINT ODD HEADER ON NEXT PAGE | |
| * F=E | PRINT EVEN FOOTER ON NEXT PAGE | |
| * F=O | PRINT ODD FOOTER ON NEXT PAGE | |
| * PN=X | BEGIN PAGE NUMBERS WITH VALUE OF X | |

NOTES:

* ----- SEE HIERARCHY RULES ON PAGE 18
OF SCRIPSIT MANUAL

* ----- EVEN HEADERS/FOOTERS ARE FLUSH RIGHT

* ----- ODD HEADERS/FOOTERS ARE FLUSH LEFT

* ----- IF FLUSH LEFT ONLY IS DESIRED AND 18
ANY OF THESE ARE IN EFFECT:
J=Y
C=Y
FR=Y
THEN THE FOLLOWING COMMAND(S)
MUST BE USED TO DISABLE ITS
COUNTERPART ABOVE:
J=N
C=N
FR=N

* ----- ANY COMMANDS WHICH CHANGE THE PAGE 51
BOUNDARIES
TM
BM

VC
PL
PN
H
F

MUST PRECEDE THE TEXT TO WHICH
THEY APPLY. THEY MUST BE AT TOP
OF TEXT OR MUST FOLLOW A PAGE
BOUNDARY MARKER (DOWN ARROW).

HEADERS (NO PAGE NUMBER IN HEADER):

| | | | |
|---|---------------|--|-------|
| * | CTRL Q | DISPLAYS BLOCK START MARKER | 24,38 |
| | HS | DESIGNATES HEADER TO APPEAR ON ALL PAGES (ODD & EVEN) | |
| | J=N | DISABLE LEFT/RIGHT JUSTIFICATION | |
| | SPACE BAR | SEPARATE COMMANDS WITH A SPACE | |
| | C=Y | CENTER HEADER TEXT | |
| | (CR) | END FORMAT LINE WITH ENTER | |
| | ----- | TYPE HEADER TEXT HERE & ENTER | |
| | ----- | INSERT ANY BLANK LINES WITH ENTER | |
| | CTRL Q | TO END THE HEADER BLOCK | |
| | CTRL DN ARROW | | |
| | (CR) | | |
| | CLEAR | | |

FOOTERS WITH PAGE NUMBERS:

NOTE: IF A HEADER IS NOT BEING USED, SKIP TO ASTERISK

POSITION CURSOR ON TOP OF THE
GRAPHIC BLOCK FOR ENTER WHICH
IMMEDIATELY FOLLOWS THE HEADER
BLOCK END MARKER.

| | | | |
|---|---------------|---|-------|
| | CTRL S | TO INSERT THE FOOTER BLOCK | |
| | CTRL X | | |
| * | CTRL Q | DISPLAYS BLOCK START MARKER | 26,38 |
| | FS | SIGNIFIES FOOTER TO APPEAR ON EVERY PAGE (ODD & EVEN) | |
| | J=N | DISABLE LEFT/RIGHT JUSTIFY | |
| | SPACE BAR | SEPARATE COMMANDS WITH A SPACE | |
| | C=Y | CENTER THE PAGE NUMBER AND ANY OTHER FOOTER TEXT | |
| | (CR) | END FORMAT LINE WITH ENTER | |
| | ----- | INSERT ANY BLANK LINES WITH ENTER | |
| | PAGE | TYPE "PAGE " (NOTE SPACE AFTER WORD) | |
| | CTRL Q | BEGIN PAGE-NUMBERING SUB-BLOCK | |
| | P | DESIGNATES A PAGE BLOCK | |
| | ## | TWO TO FIVE "##" SYMBOLS DEPENDING ON THE MAX DIGITS ANTICIPATED | |
| | CTRL Q | | |
| | CTRL DN ARROW | | |
| | (CR) | END OF PAGE-NUMBERING SUB-BLOCK | |

CTRL Q FOOTER BLOCK END MARKER

CTRL DN ARROW

NOTE: IF HEADER IS USED WITH THIS FOOTER, SKIP TO ASTERISK
(CR) ONLY IF NO HEADER IS BEING USED;
IF HEADER USED, THE (CR) WHICH
TERMINATED THE HEADER IS STILL
"IN THE SYSTEM" AND NEED NOT BE
DUPLICATED (IT WILL "REAPPEAR"
AFTER THE NEXT STEP)

* CLEAR CLOSES UP THE TEXT (AND APPENDS THE
 (CR) WHICH WAS DISPLACED BY THE
 INSERTION OF THE FOOTER AFTER THE
 HEADER'S BLOCK END MARKER -- IF
 HEADER WAS USED WITH THIS FOOTER)

TITLE PAGE:

* >VC=Y TO VERTICALLY CENTER TEXT 34
>C=Y TO CENTER TEXT LEFT & RIGHT
----- TYPE TEXT HERE (AS MANY LINES
 AS NEEDED -- USE BLANK LINES
 AS REQUIRED TO SPACE TEXT AS
 IN SEPARATING TITLE FROM
 AUTHOR FROM DATE)

CTRL V TO FORCE AN END-OF-PAGE (A PAGE
 BOUNDARY MARKER)

>VC=N C=N TO DISABLE CENTERING COMMANDS

PRINTING:

NOTE: BEFORE PRINTING, DELETE CHARACTERS AT END OF TEXT

CTRL D POSITION CURSOR AFTER LAST (CR)

CTRL F AT END OF TEXT

THEN USE ONE OF THE FOLLOWING AS APPROPRIATE:

* BREAK FOR NORMAL PRINTOUT 22,46
P(CR)

* BREAK FOR PRINTOUT WHICH INCLUDES CMDS 24,46
P,I(CR) @ (SEE NOTES BELOW ON SYMBOLS)

* BREAK FOR PRINTING ON SINGLE SHEETS 22,46
P,P(CR)

* BREAK FOR SERIAL PRINTER 3,22
P,S(CR) (I AND P OPTIONS ABOVE MAY 46
 BE USED WITH SERIAL PRINTERS)

SYMBOLS ON PRINTOUT WITH "I" OPTION REQUESTED:

* UNDERLINE CHAR (CR) OR ENTER 34

* \$ PARAGRAPH MARKER 34

* BACKSLASH CHAR PAGE MARKER 34

* > COMMENT LINE 34

* > FORMAT LINE 34

* OPEN BRACKET BLOCK START MARKER
 * CLOSE BRACKET BLOCK END MARKER

PRINTING PART OF A DOCUMENT:

COPY MARKERS ARE USED TO MARK SECTION TO BE PRINTED

```
*  -----      POSITION CURSOR WHERE YOU WANT      43
                        PRINTING TO START

BREAK
C(CR)              DISPLAY COPY MARKER --
                        PRINTING WILL BEGIN HERE
-----          POSITION CURSOR WHERE YOU WANT
                        PRINTING TO STOP -- THE
                        CURSOR MUST FOLLOW A TEXT
                        BOUNDARY MARKER

BREAK
C(CR)              DISPLAY COPY MARKER --
                        PRINTING WILL STOP HERE
-----          IF YOU ONLY TYPE ONE COPY MARKER,
                        PRINTING STARTS THERE AND
                        CONTINUES TO END OF TEXT
-----          USE "CTRL D" TO DELETE EACH
                        COPY MARKER AFTER PLACING
                        CURSOR OVER EACH COPY MARKER
                        (ONE AT A TIME)
```

SUPPRESSING THE PRINTING OF PART OF TEXT:

```
*  -----      POSITION CURSOR AFTER A BOUNDARY      43
                        MARKER AND BEFORE THE TEXT YOU
                        WANT TO BYPASS

>P=N(CR)          FORMAT LINE TO SUPPRESS PRINTING
-----          POSITION CURSOR AFTER A BOUNDARY
                        MARKER AND BEFORE THE TEXT WHERE
                        YOU WANT PRINTING TO RESUME

>P=Y(CR)          FORMAT LINE TO RE-ENABLE PRINTING
-----          IF YOU USE ONLY THE P=N COMMAND,
                        PRINTING WILL TERMINATE AT
                        THAT POINT

-----          THE FORMAT COMMANDS ABOVE MAY BE
                        INCLUDED ON A FORMAT LINE WITH
                        OTHER FORMAT COMMANDS
```

WINDOW SUPPRESS:

```
*  -----      ADVISABLE TO LEAVE DEFAULTED      43
```

SAVING TO DISK:

```
*  -----      POSITION CURSOR AFTER THE LAST      21,44
```

(CR) AT END OF TEXT SO THAT
EXTRA SPACES CAN BE DELETED

CTRL D
CTRL F
BREAK

THEN USE ONE OF THE FOLLOWING AS APPROPRIATE:

S FILENAME(CR) TO SAVE A NEW DOCUMENT TO DISK --
OR TO A NEW DISK

S(CR) TO SAVE A DOCUMENT PREVIOUSLY
LOADED FROM DISK

S,A FILENAME(CR) TO SAVE A NEW DOCUMENT IN ASCII
S,A TO SAVE IN ASCII A DOCUMENT

PREVIOUSLY LOADED FROM DISK
----- ASCII FORMAT MAY BE USED TO LOAD/SAVE
BASIC PROGRAMS, DATA FILES, AND
QUILL DRIVER FILES

LOADING FROM DISK:

* BREAK

21,45

THEN USE ONE OF THE FOLLOWING AS APPROPRIATE:

L FILENAME(CR) TO LOAD A DOCUMENT FOR THE FIRST
TIME -- ANYTHING IN MEMORY IS LOST

L(CR) TO RE-LOAD A DOCUMENT PREVIOUSLY LOADED

L,C FILENAME(CR) LOAD THE FILE AND APPEND IT TO
ANY TEXT IN MEMORY

MORE SCRIPSIT ZAPS - Submitted by Barry Kornfeld

=====

After all of the zaps have been zapped and the patches patched, SCRIPSIT became (like Mary Poppins) practically perfect in every area except for one thing; the cursor is too slow! Without a real scroll command, we have nought but the cursor to get us up and down the text. That can take a lot of patience with a big document.

Thanks to Skip Taylor of Lancaster, CA, my cursor is zipping around like Dancin' Demon. Here's how to juice up yours:

To increase cursor speed:

Relative sector 15, MOD BA

Change from: 01 AC 0D CD

to: 01 0A 00 CD

(NB Changing to FF FF would be the slowest movement. The smaller the number, the faster the cursor moves. 0A 00 is pretty fast).

The following is from THE VOICE OF THE '80 NEWSLETTER of FAIRFIELD COUNTY TRS-80 USERS GROUP where Alan Abrahamson edits one of the liveliest newsletters around. It will shorten the delay between keypress and cursor movement in the repeat mode.

Relative sector 14, MOD C4

Change from: 61 21 00 04 22

to: 61 21 00 03 22

LAST MEETING

=====

We had a panel of four speakers, each of whom spoke about one of four word processing programs: Barry Kornfeld spoke about SCRIPSIT, Stan Milgram spoke about LAZY WRITER, Walter Gorkiewicz spoke about IBM SCRIPT, and Lou Shapiro spoke about PENCIL. The presentations were excellent, and our members showed great interest by asking many questions. I am sure that we could learn a lot more if we had another session with this panel.

Kal gave his regular Assembly Language lesson, and it was excellent as usual. The Hardware/Software clinic this time was essentially a discussion of the word processing programs.

One of our members made arrangements to buy group purchases of diskettes at a discount price, and another member did similarly for connectors with gold contacts for the connection between the keyboard and the expansion interface.

CORRECTION

=====

In the last newsletter, there was a letter from Larry Epstein, in which he thanked us for the opportunity to address our group. The subject was the Corvus hard disk drive for which Larry is a distributor. He indicated that help was needed for Model 1 Level 11 BASIC & Assembly Language programming. The telephone number that was given to call was incorrect. The correct number is 236-3173.

DRIVING YOUR DRIVES INTO THE GROUND - by Barry Kornfeld

=====

Disk drives, like cars, can be successfully pushed beyond their rated limits. A 35ms, 35-track Shugart can be pushed to run successfully at 20ms and 37 tracks just as an ordinary car can be pushed to run at sports car speeds, but for how long. Briefly, I tried running my Shugarts at 20ms and the normally quiet drives whined like banshees.

We learn about pushing drives from magazines and newsletters and assume because it is in print the author knows disk drive mechanisms inside and out. I'm afraid that invariably, the author is a software type who has merely found a 'soup-up' zap and assumes that if the drive reads and writes track 37 at 20ms, then everything is OK.

I don't pretend to know exactly what the short or long-term effect of any of these 'overruns' is. I do know that the people at Shugart's eastern regional repair center simply say: 'DON'T'.

Application for membership in KINGS BYTE TRS-80 USERS GROUP

You don't have to live in Brooklyn to become a member.

NAME.....

ADDRESS.....

CITY.....STATE.....ZIP.....

Enclosed is fifteen dollars (\$15) for membership in
KINGS BYTE TRS-80 USERS GROUP.

Make check payable to: KINGS BYTE COMPUTER CLUB.

Send this form (or copy) to:

TREASURER
KINGS BYTE TRS-80 USERS GROUP
c/o MORTY LIBOWITZ
1063 EAST 84 STREET
BROOKLYN, NY 11236

KINGS BYTE NEWSLETTER
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